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CANADA'S TRADE IN SELECTED FARM INPUTS, 1945-75

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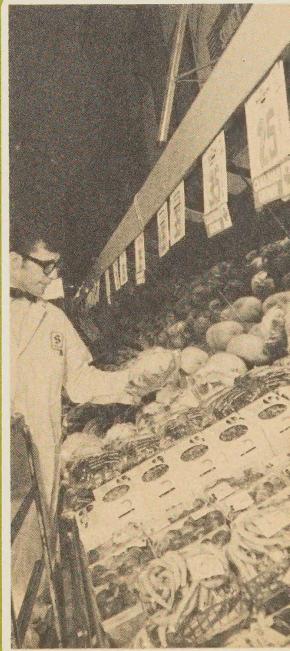
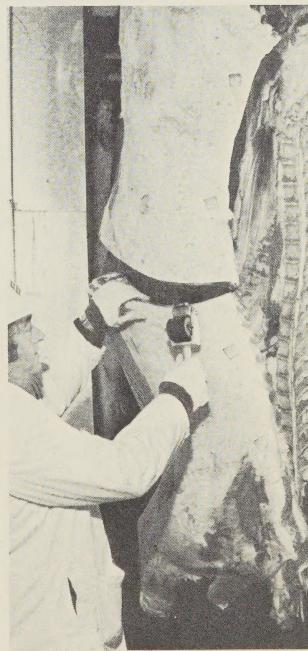
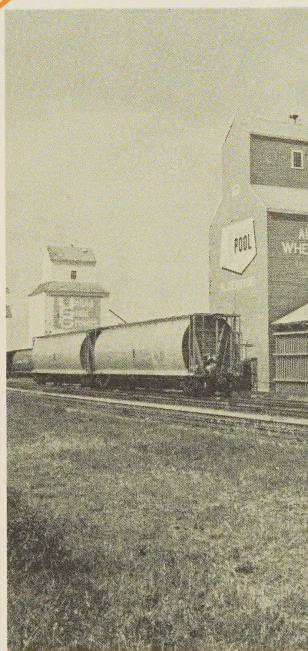
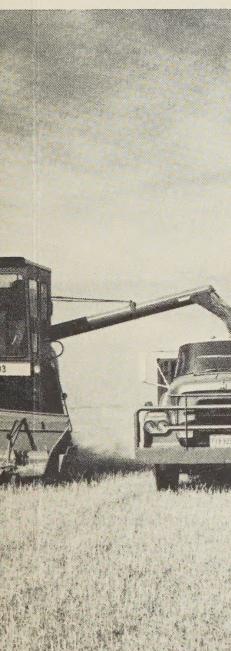
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CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS, 1945-75

P. Kampouris
D. Shute

Edited and published by

Communications Unit

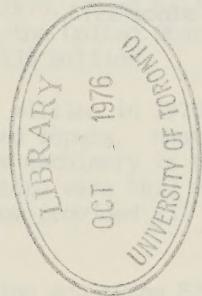
Economics Branch

Agriculture Canada

Ottawa K1A 0C5

Publication No. 76/11

July 1976



Agriculture
Canada

Economics Branch

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This bulletin is the fifth in the series of publications by the Economic Analysis of Agriculture Division, to summarize trade statistics for a group of selected non-farm agricultural inputs. The series includes the trade in machinery, fertilizers, twine, agricultural chemicals, twine, tires, tractor and implement parts.

ABSTRACT

This bulletin contains statistics on Canada's trade in farm machinery, fertilizer, fertilizer materials, agricultural chemicals, twine, and tires for tractors and implements, for the period 1945 to 1975.

Exports of these inputs in 1975 were almost \$1.1 billion, 20 percent above the previous record of \$859 million in 1974. Imports were almost \$1.4 billion, up 40 percent from 1974, leaving a trade deficit of about \$321 million, a record high.

The United States remains Canada's principal trading partner in these inputs, accounting for 85 percent of Canada's exports and 84 percent of Canada's imports in 1975.

Fertilizer exports were a record \$478 million in 1975. Over half was potassium chloride (muriate of potash), most of it going to the United States. Fertilizer imports, mostly phosphate rock, were \$139 million.

Exports of farm machinery and parts totalled \$575 million in 1975, surpassing fertilizer as the leading export item of the listed inputs. Most of the machinery exports were to the United States. Farm machinery is the leading imported input, at \$1.1 billion. Imports of tractors were \$622 million, 82 percent from the United States. The United Kingdom provided \$37 million in tractor imports and the EEC-6 \$52 million.

Exports of agricultural chemicals were \$16.6 million and twine \$2.4 million. Chemical imports were \$111 million and twine \$45 million.

FOREWORD

This bulletin is the first of its kind to be published by the Economics Branch of Agriculture Canada that summarizes trade statistics for a group of selected manufactured farm production inputs. The inputs included are farm machinery, fertilizers, fertilizer materials, agricultural chemicals, twine, tractor and implement tires.

As farms become larger and the production process more complex, it becomes necessary for farmers to be more specialized if they are to use, economically, the latest techniques and be able to compete effectively with others. Increased farm size and specialization are both associated with increased productivity. They are also associated with an increasing trend away from farm-produced inputs toward purchased inputs, i.e., inputs supplied from the non-farm sector. The greater use of purchased inputs by farmers coupled with rising costs in recent years has resulted in numerous requests for the statistics compiled in this handbook.

In addition to statistics for calendar years 1972 to 1975, averages for the 1968-71 period and a historical summary by years since 1945 are given. The data are presented in both value (Canadian dollar) and quantity terms (where possible), by commodity subclass, and by country of origin and destination.

The statistics are the same as those published by Statistics Canada in "Trade of Canada" reports: Catalogue No. 65-004, Exports by Commodities (Monthly) and Catalogue No. 65-007, Imports by Commodities (Monthly). Exports are valued f.o.b. point of shipment. They include re-exports of items previously imported and exported again almost unchanged in form. Imports are valued also f.o.b. point of shipment but they include products that are re-exported almost unchanged in form.

Another Economics Branch report, "Canada's Trade in Agricultural Products", contains trade statistics on largely unmanufactured farm production inputs. These encompass: animal feeds including oilseed products; breeding livestock (cattle); feeder cattle; chicks and poults; hatching eggs; grain, grass and forage seeds for sowing (excluding seed corn); seed potatoes; nursery stock; and honey bees.

The appendix includes a summary of Canadian tariff schedules for imports of the selected group of manufactured farm production inputs. Brief statements are also included outlining federal and provincial sales taxes and import tariff schedules of selected foreign countries. These statements are not definitive or inclusive. Users should consult applicable tariff (Canadian and foreign) and sales tax schedules (federal and provincial).

These statistics will be published annually. Comments are invited from users.

G.J. Dobson, Director,
Marketing and Trade Division.

TABLE OF CONTENTS

	Page
Abstract	i
Foreword	iii
Table of Contents	v
Summary	1
Exports	1
Imports	2
Figure 1.	4
Table 1. Exports of Agricultural Production Inputs to Principal Countries, Historical Summary	5
Table 2. Imports of Agricultural Production Inputs from Principal Countries, Historical Summary	6
Table 3. Total Exports of Agricultural Production Inputs to All Countries by Major Groupings, Average Value 1968-71 - Calendar Years 1972-75	7
Table 4. Total Imports of Agricultural Production Inputs from All Countries by Major Groupings, Average Value 1968-71 - Calendar Years 1972-75	7
Table 5. Total Exports of Agricultural Production Inputs to the United States by Major Groupings, Average Value - 1968-71 - Calendar Years 1972-75	8
Table 6. Total Imports of Agricultural Production Inputs from the United States by Major Groupings, Average Value - 1968-71 - Calendar Years 1972-75	8
Table 7. Total Exports of Agricultural Production Inputs to the United Kingdom by Major Groupings, Average Value - 1968-71 - Calendar Years 1972-75	9
Table 8. Total Imports of Agricultural Production Inputs from the United Kingdom by Major Groupings, Average Value - 1968-71 - Calendar Years 1972-75	9

Table 9. Total Exports of Agricultural Production Inputs to the European Economic Community, Average Value - 1968-71 - Calendar Years 1972-75	10
Table 10. Total Imports of Agricultural Production Inputs from the European Economic Community, Average Value - 1968-71 - Calendar Years 1972-75	10
Table 11. Total Exports of Agricultural Production Inputs to Japan, Average Value 1968-71 - Calendar Years 1972-75	11
Table 12. Total Imports of Agricultural Production Inputs from Japan, Average Value 1968-71 - Calendar Years 1972-75	11
Table 13. Exports of Farm Machinery by Country of Destination, Value and Units, Average 1968-71 - Calendar Years 1972-75	12
Table 14. Imports of Farm Machinery by Country of Origin Value and Units, Average 1968-71 - Calendar Years 1972-75	13
Table 15. Exports of Farm Machinery, All Countries, by Class, Value and Units, Average 1968-71 - Calendar Years 1972-75	14
Table 16. Imports of Farm Machinery, All Countries, by Class, Value and Units, Average 1968-71 - Calendar Years 1972-75	15
Table 17. Exports of Fertilizers and Materials by Country of Destination, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	16
Table 18. Imports of Fertilizers and Materials by Country of Origin, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	17
Table 19. Exports of Fertilizers and Materials to All Countries, by Class, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	18
Table 20. Imports of Fertilizers and Materials from All Countries, by Class, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	19

	Page
Table 21. Exports of Agricultural Chemicals by Country of Destination, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	20
Table 22. Imports of Agricultural Chemicals by Country of Origin, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	21
Table 23. Exports of Agricultural Chemicals to All Countries, Value and Quantity, Calendar Years 1973-75 - by Quarters	22
Table 24. Imports of Agricultural Chemicals from All Countries, by Item and Quantity, Average 1968-71 - Calendar Years 1972-75	23
Table 25. Imports of Agricultural Chemicals from All Countries, by Item and Value, Average 1968-71 - Calendar Years 1972-75	24
Table 26. Exports of Twine by Country of Destination, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	25
Table 27. Imports of Twine by Country of Origin, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	26
Table 28. Imports of Twine from All Countries, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	27
Table 29. Exports of Twine to All Countries, Value and Quantity, Average 1968-71 - Calendar Years 1972-75	27
Table 30. Imports of Tractor and Implement Tires from All Countries and Selected Countries, Value and Units, Average 1968-71 - Calendar Years 1972-75	28
Table 31. Exports of Tractor and Implement Tires to All Countries and to Selected Countries of Destination, Value and Units, Average 1968-71 - Calendar Years 1972-75	29
Table 32. Average Unit Values of Selected Agricultural Production Inputs, Exported to All Countries, Average 1968-71 - Calendar Years 1972-75	30

	Page
Table 33. Average Unit Values of Selected Agricultural Production Inputs, Imported from All Countries, Average 1968-71 - Calendar Years 1972-75	31
Table 34. Net Trade Balance in Selected Agricultural Production Inputs, Canada, Average 1968-71 - Calendar Years 1972-75	32
Glossary of Selected Agricultural Production Inputs	33
Appendix - Tariffs, Sales Taxes, Trade Restrictions and Concessions on Selected Agricultural Production Inputs	
Part I - Canadian Tariffs	39
Part II - Federal and Provincial Sales Taxes	43
Part III - Tariff and Non-Tariff Barriers to Canadian Exports	44
Feedback from Readers	47

CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS

Summary

The value of exports of selected agricultural production inputs¹ in 1975 was \$1,077 million, 20 percent above the previous record of \$859 million in 1974. Exports in 1974 were 43 percent above the 1973 figure.

The value of imports of inputs increased 40 percent from \$996 million in 1974 to \$1,398 million in 1975. The value had increased 50 percent between 1973 and 1974.

Canada's balance of trade in inputs in 1975 showed a deficit of about \$321 million, a record high.

The United States remains Canada's principal trading partner in value of these inputs, accounting for 85 percent of Canada's exports and 84 percent of Canada's imports in 1975. The respective percentages in 1974 were 87 and 83.

Trade with the European Economic Community (EEC-6) -- Belgium, Luxembourg, France, Netherlands, Germany and Italy -- started with a favorable trade balance in 1945, with exports at over \$7 million, and imports negligible. In 1959, a year after the EEC-6 was established, exports fell to \$0.1 million. However, they increased to \$7 million in 1965 and \$15 million in 1975. Imports from the EEC-6, however, rose steadily from 1945, reaching \$102 million in 1975.

Japan began trading with Canada in inputs in a significant way in 1963, and there has been a positive trade balance ever since. The main export to Japan is fertilizer, while the main import item is tractors and parts. Total exports of inputs in 1975 to Japan were \$18 million while imports were \$13 million.

Exports

Fertilizer has made up more than half the total value of exports of inputs almost consistently since 1970. In 1975 fertilizer exports were a record \$478 million, 11 percent above the 1974 figure. The value of fertilizer exports in 1974 had increased 50 percent above the 1973 level. The second largest export item, farm machinery and parts, however, reached a high in 1975 (surpassing fertilizer exports) when the value of exports increased 39 percent to \$575 million from \$415 million in 1974. Between 1973 and 1974 the value of farm machinery and parts exported had increased 37 percent.

¹

The inputs included in this trade summary are: farm machinery, fertilizer, fertilizer materials, agricultural chemicals, twine and tires for tractors and implements. References to "inputs" hereafter in this publication will apply only to the items listed above. A breakdown of these items into their components appears in the glossary on pages 33 to 35.

The main category of fertilizer and fertilizer materials exported is potassium chloride (muriate of potash), accounting for over half the value of fertilizer exports. The United States purchases nearly 80 percent of Canadian exports of potassium chloride.

The United States has also purchased about 95 percent of Canadian exports of farm machinery every year since 1965, both in value and quantity. In 1975, however, the figure was 86 percent of the value.

A group of leading Middle East, African and South American countries increased their annual purchases of farm machinery from a total of \$2.5 million in 1974 to \$35.6 million in 1975.

It was generally expected that Canadian exports to the United Kingdom in all commodities would fall with U.K. entry into the EEC. However, Canadian exports of inputs rose from \$1.3 million in 1971 to \$4.8 million in 1975. Exports of farm machinery and parts to the United Kingdom increased from \$1.4 million in 1971 to \$3.8 million in 1975.

In 1968, Canada exported \$11 million of fertilizers and \$1.8 million of farm machinery to the EEC-6. By 1975 exports of fertilizer amounted to \$8 million while farm machinery exports totalled about \$4 million.

Canadian exports of agricultural chemicals doubled between 1974 and 1975, reaching \$16.6 million. The countries that bought in quantity were South American, Caribbean, and Central American countries.

Exports of twine declined in 1975 to \$2.4 million, from almost \$3 million in 1974. Twine accounted for 0.6 percent of the value of Canadian exports of farm inputs in 1968, and 0.2 percent in 1975.

In summary, the United States is Canada's main buyer of the specified group of agricultural production inputs. The share of Canada's exports of these inputs going to the United States ranged from 54 percent in 1945 to 92 percent in 1960, then dropped back to 85 percent in 1975. More than ninety other countries import the remainder of Canada's exports.

Imports

Imports of inputs have increased from \$54 million in 1945 to almost \$1 billion in 1974, and \$1.4 billion in 1975. In 1945, 99 percent of Canada's imports of inputs came from the United States. This proportion decreased to 90 percent in 1960, and 83 percent in 1974. In 1975, U.S. sales to Canada were almost \$1.2 billion, or 84 percent of the total value of all inputs imported. Farm machinery has always been the most important input imported, and tractors the major single commodity in that grouping.

Farm machinery accounted for 92 percent of Canadian imports of inputs in 1945, 87 percent in 1960, and 77 percent in 1975. Tractor imports alone in 1975, at \$622 million, were 44 percent of Canadian imports of inputs. The United States supplied 82 percent of Canadian tractor imports in 1974 and 1975. Tractors imported from the United Kingdom were valued at \$12 million in 1964. In 1974, this import value had increased to \$24 million and in 1975, it was \$37 million. The EEC-6, mainly West Germany and Italy, supplied Canada with 9 percent of the total value of tractors imported, or \$37 million worth in 1974. By 1975 the figure had increased to \$52 million, 8 percent of Canadian tractor imports.

Fertilizer imports, mainly phosphate rock, have been traditionally second in importance for the selected inputs, making up 7 percent of the total value of inputs imported in 1945, 5 percent in 1960, and 10 percent in 1975, or \$139 million.

The value of agricultural chemical imports began to increase considerably in the Seventies and was 8 percent of the total value of inputs imported in 1975, or \$111 million.

Agricultural chemicals from the United States were 74 percent of the total import value in 1974, and 67 percent in 1975. In 1975, U.K. shipments of agricultural chemicals to Canada were 10 percent of total agricultural chemicals imported, and those from the EEC-6 were 19 percent.

Imports of twine have traditionally been 2 percent of all imports of inputs. In 1975, imports of twine were \$45 million, falling from \$55 million in 1974. Canada's main sources of baler twine have been Portugal and Mexico.

In summary, the United States is Canada's largest supplier of the specified agricultural production inputs, providing between 82 and 84 percent during the past six years.

CANADIAN TRADE IN AGRICULTURAL PRODUCTION INPUTS 1945 - 1975*

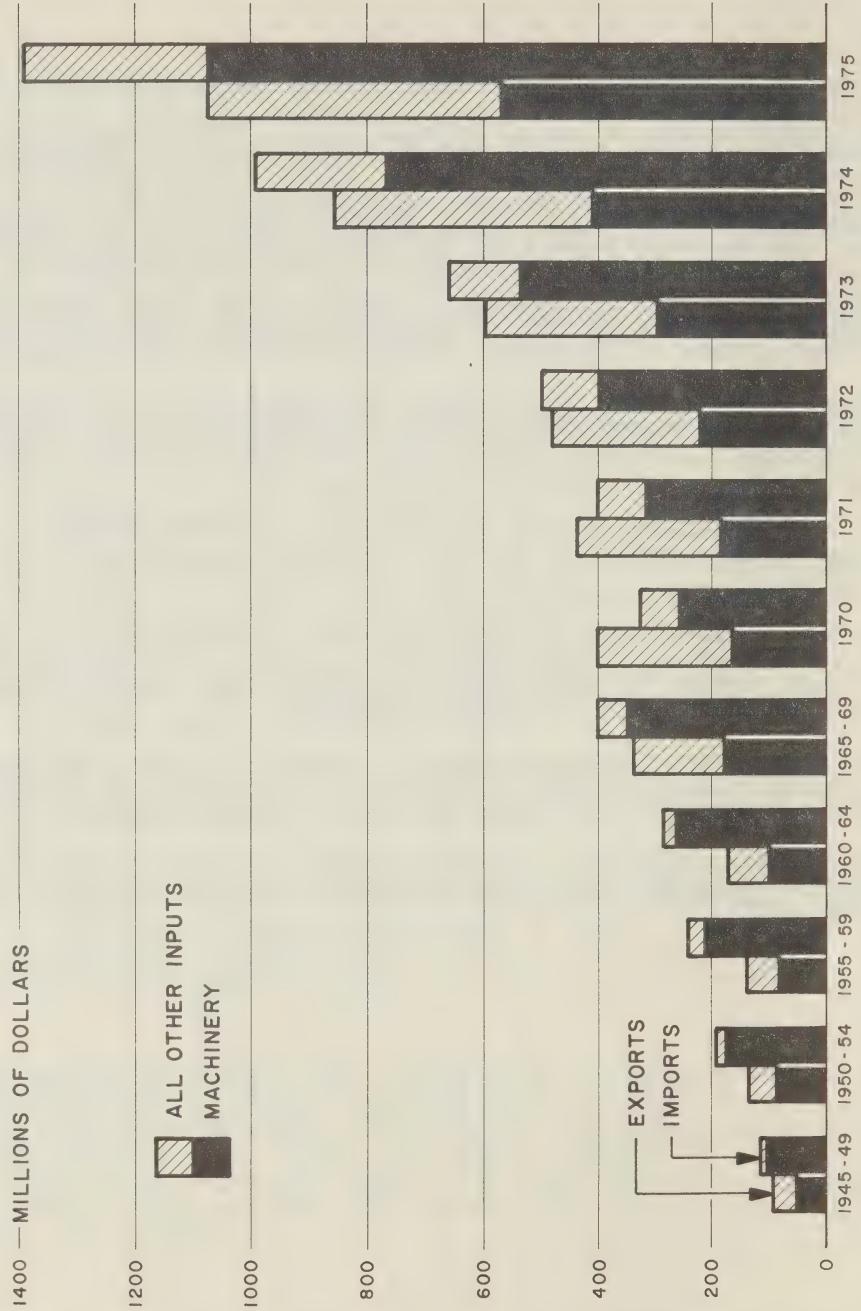


Figure 1

TABLE 1 - EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO PRINCIPAL COUNTRIES, HISTORICAL SUMMARY

Calendar Year	Total	US	UK	EEC-6	Japan	India	Oceania	Mexico
- millions of dollars -								
1945	53.4	30.9	6.3	7.1	.6	1.1		-
1946	65.2	38.6	3.4	5.9	1.0	1.0	.3	.6
1947	85.9	53.5	4.7	6.3	.4	1.4	.8	.6
1948	125.7	89.3	3.8	3.6	.0	.5	.8	1.3
1949	141.6	105.2	4.1	5.1	-	1.4	.6	.7
1950	133.3	109.1	.9	2.8	-	2.6	.4	.8
1951	151.9	126.5	.6	2.1	-	.5	.7	1.2
1952	154.6	131.0	.4	.7	.0	.3	.7	1.6
1953	123.7	106.8	.2	1.2	.0	.1	.4	1.0
1954	123.1	96.5	.2	1.6	.0	.4	.2	2.0
1955	135.3	111.9	.3	2.3	.0	.0	.6	2.4
1956	119.6	101.2	.3	1.3	.0	.0	.7	2.5
1957	120.7	98.6	.2	1.6	.0	1.7	.9	1.8
1958	145.8	131.8	.1	1.0	.0	.0	.8	1.0
1959	164.7	151.5	.1	.1	.3	1.0	.7	1.1
1960	141.8	129.8	.2	.2	.0	2.4	1.5	.6
1961	144.3	129.5	.4	2.0	.0	.0	2.5	1.0
1962	158.0	145.1	1.6	1.4	.3	.0	1.2	1.0
1963	198.4	177.4	1.9	.5	6.5	-	1.7	.8
1964	233.4	201.0	2.6	.9	8.2	-	3.8	.8
1965	283.1	248.9	2.2	7.2	9.5	1.3	4.7	1.6
1966	335.2	292.7	1.7	2.0	12.0	1.5	6.9	2.0
1967	354.0	312.7	1.6	.9	10.4	5.5	5.3	1.7
1968	350.7	297.0	1.9	12.3	12.7	9.7	5.3	2.2
1969	370.6	319.4	1.5	10.9	12.9	7.3	4.3	2.6
1970	402.0	350.7	.9	6.1	14.3	12.3	4.0	1.3
1971	437.5	373.3	1.4	7.1	15.7	15.4	5.6	1.9
1972	485.3	420.2	1.9	7.9	15.3	12.9	4.6	2.2
1973	599.4	516.0	1.9	14.5	16.5	9.7	6.1	1.6
1974	858.7	748.5	3.0	11.0	19.2	10.1	7.1	2.5
1975	1,076.5	914.7	4.8	15.1	18.1	4.6	17.8	9.3

NOTE: ".0" indicates exports less than \$100,000.
"—" indicates no exports.

TABLE 2 - IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM PRINCIPAL COUNTRIES, HISTORICAL SUMMARY

Calendar Year	Total	US	UK	EEC-6	Sweden	Switzerland	Japan	Mexico
- thousand dollars -								
1945	54.3	53.7	.1	.0	.2	.0	-	-
1946	72.8	71.7	.2	.2	.3	.0	-	-
1947	112.3	109.6	.3	1.8	.4	.1	.0	.0
1948	146.6	142.5	1.9	1.7	.3	.0	.0	-
1949	186.0	179.6	3.6	1.8	..	.3	.1	.0
1950	171.0	159.7	8.8	2.1	.2	.0	-	.0
1951	205.9	196.9	7.1	1.4	.4	.0	.0	.0
1952	208.9	199.6	6.7	1.8	.4	.0	.0	.0
1953	221.8	212.7	5.6	2.4	.5	.0	.0	.0
1954	158.6	149.7	5.3	2.0	.5	.0	.0	.1
1955	194.9	186.6	4.2	2.7	.5	.0	.0	.3
1956	250.3	241.0	4.2	2.8	.6	.0	.0	.5
1957	230.8	217.5	7.5	3.8	.5	.1	.1	.3
1958	226.8	213.6	7.7	3.4	.6	.0	.1	.1
1959	304.7	280.4	17.2	3.6	.9	.3	.3	.1
1960	263.6	237.9	16.0	5.3	1.0	.2	.3	.2
1961	273.9	242.1	20.4	6.1	.9	.3	.2	.3
1962	292.8	258.2	21.0	8.1	1.2	.4	.3	.1
1963	361.1	322.9	21.8	9.9	1.1	.8	.2	.6
1964	344.3	309.8	15.0	10.5	.6	1.5	.1	1.0
1965	359.2	323.9	17.5	8.8	.6	2.0	.1	.7
1966	426.0	380.4	19.1	16.5	.3	2.0	.1	1.0
1967	439.8	385.1	23.3	18.6	.8	2.5	.2	1.1
1968	401.0	345.1	22.1	17.2	4.7	3.4	.5	1.0
1969	396.3	335.8	25.4	16.0	1.2	9.1	1.4	.7
1970	325.5	275.8	19.5	17.6	1.6	2.4	1.3	.6
1971	402.1	330.1	23.2	24.0	3.0	5.9	2.6	1.4
1972	499.3	411.8	28.2	29.6	5.1	3.8	3.7	2.7
1973	662.1	563.1	30.4	37.3	3.0	3.9	3.6	4.5
1974	995.6	830.1	36.6	62.0	3.9	3.3	8.7	10.3
1975	1,398.1	1,172.2	54.9	101.6	10.9	2.8	13.3	1.0

NOTE: ".0" indicates imports less than \$100,000.
"- " indicates no imports.

TABLE 3 - TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO ALL COUNTRIES,
BY MAJOR GROUPINGS, AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	179,159	227,624	302,450	415,344	574,618
Agricultural Chemicals	-	-	5,673	7,030	16,607
Fertilizers and Materials	207,577	253,863	287,197	431,874	478,387
All Twine	2,465	1,438	1,035	2,977	2,362
Tractor and Implement Tires	1,011	2,359	3,009	1,431	4,531
TOTAL	390,212	485,284	599,364	858,656	1,076,505

TABLE 4 - TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM ALL COUNTRIES,
BY MAJOR GROUPINGS, AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	308,103	407,312	541,474	771,880	1,083,410
Agricultural Chemicals	31,945	38,588	53,828	79,665	110,688
Fertilizers and Materials	28,793	35,092	42,720	72,478	138,802
All Twine	8,408	12,960	17,172	55,060	45,006
Tractor and Implement Tires	3,962	5,323	6,872	16,555	20,241
TOTAL	381,211	499,275	662,066	995,638	1,398,147

TABLE 5 - TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE UNITED STATES BY MAJOR GROUPINGS, AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	169,665	214,653	285,501	388,899	496,569
Agricultural Chemicals	-	- "	3,617	4,206	11,061
Fertilizers and Materials	162,177	202,140	223,122	351,538	401,390
All Twine	2,341	1,244	915	2,667	1,440
Tractor and Implement Tires	909	2,204	2,793	1,181	4,218
TOTAL	335,092	420,241	515,948	748,491	914,678

TABLE 6 - TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE UNITED STATES BY MAJOR GROUPINGS, AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	266,818	344,023	470,067	675,262	939,110
Agricultural Chemicals	21,643	26,332	40,938	58,880	74,070
Fertilizers and Materials	27,649	33,880	41,355	69,993	130,815
All Twine	1,760	2,323	4,015	9,828	8,693
Tractor and Implement Tires	3,810	5,200	6,689	16,129	19,523
TOTAL	321,680	411,758	563,064	830,092	1,172,211

TABLE 7 - TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE UNITED KINGDOM BY MAJOR GROUPINGS, AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	1,196	1,424	1,363	2,685	3,851
Agricultural Chemicals	-	-	142	109	226
Fertilizers and Materials	190	494	376	186	622
All Twine	22	17	10	52	12
Tractor and Implement Tires	1	-	-	-	60
TOTAL	1,409	1,935	1,891	3,032	4,771

TABLE 8 - TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE UNITED KINGDOM BY MAJOR GROUPINGS, AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	19,642	24,058	26,017	28,384	42,222
Agricultural Chemicals	2,169	3,335	3,572	5,845	10,688
Fertilizers and Materials	65	219	183	234	242
All Twine	679	608	665	1,906	1,728
Tractor and Implement Tires	7	6	9	192	9
TOTAL	22,562	28,226	30,446	36,561	54,889

TABLE 9 - TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO THE EUROPEAN ECONOMIC COMMUNITY, AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	1,380	2,145	3,813	4,468	4,681
Agricultural Chemicals	-	- ..	625	854	2,045
Fertilizers and Materials	7,652	5,655	10,007	5,589	8,227
All Twine	25	14	34	60	74
Tractor and Implement Tires	29	50	14	1	46
TOTAL	9,086	7,864	14,493	10,972	15,073

TABLE 10 - TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM THE EUROPEAN ECONOMIC COMMUNITY, AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	15,493	25,527	32,192	45,097	61,745
Agricultural Chemicals	2,409	3,257	4,491	10,259	21,454
Fertilizers and Materials	336	207	403	907	6,070
All Twine	319	513	194	5,613	11,950
Tractor and Implement Tires	109	52	36	89	392
TOTAL	18,666	29,556	37,316	61,965	101,611

NOTE: The EEC in these tables includes West Germany, Italy, France, Belgium, Luxembourg and the Netherlands. In 1972, the U.K., Ireland and Denmark became members of the EEC, but for purposes of this report are considered separately.

TABLE 11 - TOTAL EXPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS TO JAPAN,
AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	264	215	224	348	721
Agricultural Chemicals	-	-	14	18	-
Fertilizers and Materials	13,630	15,039	16,254	18,861	17,376
All Twine	0	17	1	16	26
Tractor and Implement Tires	0	-	3	-	-
TOTAL	13,894	15,271	16,496	19,243	18,123

TABLE 12 - TOTAL IMPORTS OF SELECTED AGRICULTURAL PRODUCTION INPUTS FROM JAPAN,
AVERAGE VALUE 1968-71 - CALENDAR YEARS 1972-75

Production Inputs	Average 1968-71	1972	1973	1974	1975
- thousand dollars -					
Farm Machinery	966	3,130	3,150	8,204	11,561
Agricultural Chemicals	281	253	334	182	242
Fertilizers and Materials	4	25	-	5	6
All Twine	186	264	161	270	1,470
Tractor and Implement Tires	13	1	2	4	20
TOTAL	1,450	3,673	3,647	8,665	13,299

TABLE 13 - EXPORTS OF FARM MACHINERY BY COUNTRY OF DESTINATION, VALUE AND UNITS,
AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States					
\$000	169,665	214,653	285,501	388,899	496,568
Units	57,304	67,285	96,357	112,245	149,434
Australia					
\$000	805	372	2,578	4,647	11,651
Units	316	63	393	580	412
EEC-6					
\$000	1,380	2,145	3,813	4,468	4,681
Units	242	449	736	1,074	723
South Africa					
\$000	673	655	2,027	3,466	6,425
Units	242	215	582	562	835
United Kingdom					
\$000	1,196	1,424	1,363	2,685	3,851
Units	148	475	175	537	565
Mexico					
\$000	1,978	2,192	1,513	2,296	9,049
Units	373	383	211	422	741
Sweden					
\$000	112	241	516	1,054	600
Units	18	8	117	270	287
Hungary					
\$000	-	366	415	800	244
Units	-	55	63	84	20
New Zealand					
\$000	153	98	487	694	1,215
Units	48	12	109	149	69
Japan					
\$000	264	215	224	348	721
Units	64	107	44	176	106
Others					
\$000	2,933	5,263	4,013	5,987	39,613
Units	1,502	1,496	787	1,054	5,346
TOTAL					
\$000	179,159	227,624	302,450	415,344	574,618
Units	60,257	70,548	99,574	117,153	158,538

NOTE: Dollar value includes parts, units do not include parts.

TABLE 14 - IMPORTS OF FARM MACHINERY BY COUNTRY OF ORIGIN, VALUE AND UNITS,
AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States \$000 Units	266,818 547,523	344,023 803,248	470,067 228,433	675,262 171,774	939,110 164,274
United Kingdom \$000 Units	19,642 54,895	24,058 53,898	26,017 33,334	28,384 14,128	42,222 12,989
EEC-6 \$000 Units	15,493 8,596	25,527 8,917	32,192 9,946	45,097 12,485	61,745 11,375
Denmark \$000 Units	862 3,546	1,356 4,366	1,906 4,933	3,886 6,371	3,787 4,785
Sweden \$000 Units	2,556 747	5,079 1,155	2,919 485	3,760 700	10,426 957
Switzerland \$000 Units	87 2	30 8	88 118	118 18	155 107
Japan \$000 Units	966 1,640	3,130 845	3,150 156	8,204 427	11,561 775
Mexico \$000 Units	0 1	- -	12 -	3 -	36 -
Australia \$000 Units	161 32	379 -	415 -	455 -	407 12
Norway \$000 Units	598 1,135	1,044 1,042	1,524 1,184	2,132 1,320	2,893 1,829
Romania \$000 Units	642 203	2,305 651	1,143 301	1,007 298	2,482 607
U.S.S.R. \$000 Units	77 2,510	57 8	1,513 656	2,619 1,072	6,352 2,286
Others \$000 Units	201 2,510	325 218	529 168	955 590	2,234 1,620
TOTAL \$000 Units	308,103 620,862	407,312 874,356	541,474 279,714	771,880 209,184	1,083,410 201,616

NOTE: Dollar value includes parts, units do not include parts.

TABLE 15 - EXPORTS OF FARM MACHINERY, ALL COUNTRIES, BY CLASS, VALUE AND UNITS,
 AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Farm Machinery	Average 1968-71	1972	1973	1974 ^p	1975 ^p
Soil Preparation Machinery					
\$000	26,819	34,095	44,979	66,973	93,006
Units	20,985	34,932	38,778	46,335	51,097
Crop Protection Machinery					
\$000	7,926	11,223 ^{..}	13,039	18,844	26,160
Units	8,468	8,964	8,756	10,320	10,861
Hay Harvesting					
\$000	107,946	121,913	150,763	192,606	260,087
Units	28,614	24,801	30,996	32,737	33,732
Combines					
\$000	56,544	68,403	79,267	103,129	144,544
Units	6,679	6,576	6,666	8,139	8,200
Market Preparation Machinery					
\$000	47	323	326	436	268
Units	-	-	-	-	-
Dairy, Poultry Equipment					
\$000	2,224	3,239	4,230	3,228	2,533
Units	3	3	1	212	-
Other Agricultural Equipment					
\$000	4,445	19,621	33,244	56,678	68,899
Units	-	-	18,498	24,454	6,647
Tractors					
\$000	29,752	37,210	55,869	76,578	123,664
Units	2,187	1,848	2,545	3,095	4,416
TOTAL					
\$000	179,159	227,624	302,450	415,343	574,618
Units	60,257	70,548	99,574	117,153	158,538

NOTE: Dollar value includes parts, units do not include parts.

^pPreliminary.

TABLE 16 - IMPORTS OF FARM MACHINERY, ALL COUNTRIES, BY CLASS, VALUE AND UNITS,
AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Farm Machinery	Average 1968-71	1972	1973	1974 ^P	1975 ^P
Soil Preparation Machinery					
\$000	25,807	26,498	36,901	60,120	97,414
Units	50,079	32,735	31,572	39,641	53,387
Crop Protection Machinery					
\$000	7,547	8,706	11,345	17,779	23,700
Units	499,464	763,603	152,068	61,368	32,361
Hay Harvesting					
\$000	62,772	78,075	108,544	160,728	227,664
Units	20,029	22,356	27,772	37,264	43,774
Combines					
\$000	16,915	22,786	23,532	29,064	53,772
Units	2,418	3,099	2,644	2,779	4,023
Market Preparation Machinery					
\$000	11,196	11,982	15,717	27,032	24,741
Units	5,352	5,454	6,261	7,672	5,820
Dairy, Poultry Equipment					
\$000	11,937	14,960	19,665	27,428	26,669
Units	9,646	8,954	11,161	10,061	3,560
Other Agricultural Equipment					
\$000	18,940	25,826	36,870	61,742	61,222
Units	7,558	7,969	9,963	8,328	7,200
Tractors					
\$000	169,904	241,266	312,433	417,051	622,000
Units	28,733	33,285	40,917	44,850	55,514
New Wheel Tractors					
\$000	81,250	126,216	165,160	220,164	357,380
Units	19,495	25,854	30,988	34,746	42,364
Used Tractors					
\$000	3,696	8,762	8,498	18,297	28,555
Units	1,007	1,320	1,789	2,242	2,717
TOTAL					
\$000	308,103	407,312	541,474	771,880	1,083,410
Units	620,862	874,356	279,714	209,184	201,616

NOTE: Dollar value includes parts, units do not include parts.

PPreliminary.

TABLE 17 - EXPORTS OF FERTILIZERS AND MATERIALS BY COUNTRY OF DESTINATION, VALUE AND QUANTITY, AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States					
\$000	162,177	202,140	223,122	351,538	-
000 tons	n.a.	6,421	7,326	8,360	-
EEC-6					
\$000	7,652	5,655	10,007	5,589	8,227
000 tons	n.a.	231	459	200	62
Japan					
\$000	13,630	15,039	16,254	18,861	17,376
000 tons	n.a.	627	666	876	645
India					
\$000	11,146	12,867	9,563	10,067	4,513
000 tons	n.a.	317	283	486	114
Singapore					
\$000	679	1,206	1,929	2,520	1,398
000 tons	n.a.	48	88	162	68
P.R. of China					
\$000	-	483	1,368	4,239	2,894
000 tons	-	16	59	216	142
Indonesia					
\$000	-	336	-	5,404	-
000 tons	-	6	-	17	-
South Korea					
\$000	1,786	3,388	5,601	5,503	10,544
000 tons	n.a.	147	218	260	381
Oceania					
\$000	3,837	4,123	2,930	1,483	4,601
000 tons	n.a.	168	111	73	157
Brazil					
\$000	1,011	4,301	3,378	10,168	6,212
000 tons	n.a.	159	151	465	239
Taiwan					
\$000	451	996	903	2,570	1,597
000 tons	n.a.	33	36	118	61
TOTAL (All Countries)					
\$000	207,577	253,863	287,197	431,874	478,387
000 tons	n.a.	8,277	9,624	11,534	9,251

n.a. = not available.

TABLE 18 - IMPORTS OF FERTILIZERS AND MATERIALS BY COUNTRY OF ORIGIN, VALUE AND QUANTITY, AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States					
\$000 000 tons	27,649 2,705	33,880 3,330	41,355 3,960	69,994 4,006	130,815 -
Chile					
\$000 000 tons	448 8	476 8	533 7	1,008 9	1,088 8
EEC-6					
\$000 000 tons	336 14	207 4	40 5	907 6	6,070 45.5
Netherlands Antilles					
\$000 000 tons	274 5	243 7	204 6	280 4	226 3
United Kingdom					
\$000 000 tons	65 3	219 .7	183 .7	234 .6	242 14
TOTAL (All Countries)					
\$000 000 tons	28,793 2,734	35,092 3,350	42,720 3,982	72,478 4,026	138,802 4,024

TABLE 19 - EXPORTS OF FERTILIZERS AND MATERIALS TO ALL COUNTRIES, BY CLASS, VALUE AND QUANTITY, AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Item	Average				
	1968-71	1972	1973	1974	1975
Urea \$000 000 tons	5,057 n.a.	13,649 233.6	11,365 170.4	19,282 161.6	22,833 133.5
Anhydrous Ammonia \$000 000 tons	7,453 n.a.	4,450 85.9	4,281 70.8	10,489 105.6	21,918 127.9
Nitrogen Solutions \$000 000 tons	13,373 n.a.	5,806 109.2	5,896 108.6	9,635 110.6	11,441 101.1
Ammonium Sulphate \$000 000 tons	6,939 n.a.	5,867 200.0	8,404 244.7	9,769 144.4	13,377 140.2
Ammonium Nitrate \$000 000 tons	14,374 n.a.	16,827 377.4	15,451 327.6	17,824 244.7	18,482 179.1
Nitrogenous Fertilizers n.e.s. \$000 000 tons	33,989 n.a.	42,583 704.2	46,986 679.9	70,477 639.7	84,245 494,8
Potassium Chloride (Muriate of Potash) \$000 000 tons	112,631 n.a.	147,489 6,338.0	183,908 7,858.8	275,675 9,969.5	292,196 7,983.0
Prepared Fertilizer Mixtures \$000 000 tons	9,222 n.a.	12,994 141.8	6,756 84.2	13,104 106.2	11,114 71.1
Fertilizers n.e.s. \$000 000 tons	4,539 n.a.	4,198 87.3	4,150 79.3	5,619 52.1	2,782
TOTAL \$000 000 tons	207,577 n.a.	253,863 8,277.4	287,197 9,624.2	431,874 11,534.3	478,389 9,250.9

n.a. = not available.

TABLE 20 - IMPORTS OF FERTILIZERS AND MATERIALS FROM ALL COUNTRIES, BY CLASS, VALUE AND QUANTITY, AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Item	Average 1968-71	1972	1973	1974	1975
Urea					
\$000	778	571	561	145	2,719
000 tons	11.6	7.6	7.8	.5	24.0
Sodium Nitrate					
\$000	686	782	899	1,864	2,088
000 tons	12.2	14.3	13.8	18.1	14.8
Nitrogen Solutions					
\$000	133	85	18	13	190
000 tons	2.3	1.8	.3	.1	1.6
Ammonium Sulphate					
\$000	735	1,100	1,130	2,270	3,277
000 tons	33.0	42.1	36.3	40.0	43.5
Nitrogenous Fertilizers n.e.s.					
\$000	387	225	611	1,358	2,067
000 tons	6.9	2.8	7.1	10.0	13.6
Superphosphate 22% or less P ₂ O ₅					
\$000	71	20	155	566	194
000 tons	2.7	.6	4.9	12.0	3.2
Superphosphate more than 22% P ₂ O ₅					
\$000	1,481	1,899	1,070	1,856	6,581
000 tons	34.2	45.9	19.7	23.1	47.2
Phosphatic Fertilizers n.e.s.					
\$000	2,340	3,958	3,712	10,237	15,361
000 tons	36.0	61.7	41.2	67.4	90.7
Phosphate Rock					
\$000	16,410	17,986	23,913	40,069	85,170
000 tons	2,465.3	2,985.1	3,678.6	3,689.2	3,618.1
Potassium Chloride (Muriate of Potash)					
\$000	756	1,704	40	53	95
000 tons	25.7	69.1	.1	.3	.4
Potassium Sulphate					
\$000	669	862	1,107	1,396	960
000 tons	16.5	20.5	25.2	24.4	11.5
Potassic Fertilizers n.e.s.					
\$000	382	628	1,131	1,670	2,365
000 tons	17.0	28.8	49.4	56.9	49.0
Prepared Fertilizer Mixtures					
\$000	2,009	3,495	5,366	8,194	11,605
000 tons	26.6	41.1	56.0	55.4	60.0
Fertilizers n.e.s.					
\$000	1,956	1,778	3,007	2,788	6,129
000 tons	44.2	28.7	41.7	28.3	46.9
TOTAL					
\$000	28,793	35,092	42,720	72,478	138,802
000 tons	2,734.0	3,350.0	3,982.0	4,026.0	4,024.4

TABLE 21 - EXPORTS OF AGRICULTURAL CHEMICALS BY COUNTRY OF DESTINATION,
VALUE AND QUANTITY - CALENDAR YEARS 1973-75

Country	1973	1974	1975
United States			
\$000	3,617	4,206	11,061
000 lbs.	5,803	3,994	8,634
EEC-6			
\$000	625	854	2,045
000 lbs.	374	428	775
United Kingdom			
\$000	142	109	226
000 lbs.	155	86	61
Iran			
\$000	29	137	-
000 lbs.	21	56	-
Hong Kong			
\$000	47	107	-
000 lbs.	111	296	-
Australia			
\$000	56	160	253
000 lbs.	43	87	159
Colombia			
\$000	7	187	405
000 lbs.	1	196	399
Ecuador			
\$000	313	356	180
000 lbs.	447	51	26
Cuba			
\$000	139	208	1,125
000 lbs.	76	123	409
South Africa			
\$000	87	57	70
000 lbs.	134	146	65
Others			
\$000	611	649	1,242
000 lbs.	335	748	822
TOTAL (All Countries)			
\$000	5,673	7,030	16,607
000 lbs.	7,500	6,211	11,350

TABLE 22 - IMPORTS OF AGRICULTURAL CHEMICALS BY COUNTRY OF ORIGIN, VALUE AND QUANTITY, AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States					
\$000	21,643	26,332	40,938	58,880	74,070
000 lbs.	66,771	66,484	100,600	128,935	130,807
EEC-6					
\$000	2,409	3,257	4,491	10,259	21,454
000 lbs.	8,547	9,316	14,528	17,727	16,473
United Kingdom					
\$000	2,169	3,335	3,572	5,845	10,688
000 lbs.	2,183	5,649	5,650	6,501	15,659
Denmark					
\$000	267	411	388	931	1,655
000 lbs.	740	1,084	895	1,059	1,339
Switzerland					
\$000	5,107	3,751	3,809	3,173	2,211
000 lbs.	3,377	3,805	3,047	2,315	1,221
Yugoslavia					
\$000	6	989	-	60	-
000 lbs.	8	784	-	44	-
Japan					
\$000	281	253	334	182	242
000 lbs.	679	628	291	466	290
Peru					
\$000	40	64	51	68	100
000 lbs.	147	165	102	123	159
Others					
\$000	23	196	246	267	268
000 lbs.	45	1,044	630	362	260
TOTAL (All Countries)					
\$000	31,945	38,588	53,828	79,665	110,688
000 lbs.	82,497	88,959	125,743	157,532	166,108

TABLE 23 - EXPORTS OF AGRICULTURAL CHEMICALS TO ALL COUNTRIES, VALUE AND QUANTITY - CALENDAR YEARS 1973-75, BY QUARTERS

Insecticides and Rodenticides	1973	1974	1975
1st Quarter			
\$000	1,079	1,303	4,982
000 lbs.	1,873	1,365	2,675
2nd Quarter			
\$000	1,606	1,685	4,259
000 lbs.	1,987	1,635	2,591
3rd Quarter			
\$000	697	1,154	3,757
000 lbs.	626	962	2,958
4th Quarter			
\$000	2,291	2,887	3,609
000 lbs.	3,013	2,249	3,126
YEAR			
\$000	5,673	7,030	16,607
000 lbs.	7,500	6,211	11,350

TABLE 24 - IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND QUANTITY
AVERAGE 1968-71, CALENDAR YEARS 1972-75

Item	Average 1968-71	- thousand pounds -			
		1972	1973	1974	1975
Aldrin, technical	60	-	4	16	-
D.D.T.	668	95	-	23	-
Derivatives of hydrocarbon n.e.s.	49,508	43,014	52,570	69,675	49,311
2,4-dichlorophenoxyacetic acid, technical	416	1,268	1,943	1,030	555
Methyl chlorophenoxyacetic acid (MCP or MCPA)	1,278	3,773	3,467	2,976	3,280
Dithiocarbamates	164	577	1,191	906	3,342
D.D.T. dusts, solutions and powders	262	7	-	211	650
Synthetic organics, n.e.s., botanicals and arsenicals, formulated	802	677	354	503	404
Dithiocarbamates, formulated	1,780	1,668	8,401	2,118	2,382
Mercurial fungicides (except seed treatments)	213	141	111	136	152
Fungicides n.e.s. (except seed treatments)	1,974	1,871	2,877	3,303	3,224
Organic mercurial seed treatments	40	17	31	77	-
Other agricultural dusts and sprays (except herbicides)	2,342	1,666	1,714	671	1,351
Herbicides based on chlorate, borate or 2,4,5-T	595	476	2,945	1,807	2,784
2,4-D ester and amine dusts and formulates	905	702	1,283	1,454	6,034
Herbicides n.e.s.	14,352	21,472	36,220	47,491	65,779
Insecticides and rodenticides n.e.s.	7,140	11,535	12,632	25,135	26,860
TOTAL	82,497	88,959	125,743	157,532	166,108

TABLE 25 - IMPORTS OF AGRICULTURAL CHEMICALS FROM ALL COUNTRIES, BY ITEM AND VALUE,
AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Item	Average 1968-71	- thousand dollars -			
		1972	1973	1974	1975
Aldrin, technical	68	-	11	23	-
D.D.T.	119	21	-	5	-
Derivatives of hydrocarbon n.e.s.	5,522	5,765	5,970	10,503	10,345
2,4-dichlorophenoxyacetic acid, technical	104	359	567	513	487
Methyl chlorophenoxyacetic acid (MCP or MCPA)	466	1,440	1,399	2,406	4,091
Dithiocarbamates	132	233	649	714	7,877
D.D.T. dusts, solutions and powders	48	2	-	67	150
Synthetic organics, n.e.s., botanicals and arsenicals, formulated	194	279	315	516	570
Dithiocarbamates, formulated	853	698	879	1,342	2,148
Mercurial fungicides (except seed treatments)	262	122	173	143	125
Fungicides n.e.s. (except seed treatments)	1,419	1,590	2,645	2,598	3,364
Organic mercurial seed treatments	52	7	7	35	-
Other agricultural dusts and sprays (except herbicides)	791	536	626	466	1,045
Herbicides based on chlorate, borate or 2,4,5-T	110	188	232	859	1,187
2,4-D ester and amine dusts and formulates	592	545	670	807	3,716
Herbicides n.e.s.	15,515	18,967	13,402	42,725	56,382
Insecticides and rodenticides n.e.s.	5,700	7,838	8,281	15,942	19,200
TOTAL	31,945	38,588	53,828	79,664	110,688

TABLE 26 - EXPORTS OF TWINE BY COUNTRY OF DESTINATION, VALUE AND QUANTITY,
AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States					
\$000	2,341	1,244	915	2,667	1,440
000 lbs.	14,204	7,538	2,915	5,630	2,278
EEC-6					
\$000	25	14	34	60	74
000 lbs.	12	17	18	53	39
United Kingdom					
\$000	22	17	10	52	12
000 lbs.	77	52	39	65	12
Panama					
\$000	12	58	9	43	40
000 lbs.	7	37	5	24	26
South Africa					
\$000	16	19	10	22	4
000 lbs.	7	8	4	7	1
Japan					
\$000	.4	17	1	16	27
000 lbs.	.2	12	6	11	21
Oceania					
\$000	6	6	15	71	33
000 lbs.	4	18	9	15	13
TOTAL (All Countries)					
\$000	2,465	1,438	1,035	2,977	2,362
000 lbs.	14,366	7,762	3,027	5,838	3,486

TABLE 27 - IMPORTS OF TWINE BY COUNTRY OF ORIGIN, VALUE AND QUANTITY,
 AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States					
\$000	1,760	2,323	4,015	9,829	8,693
000 lbs.	5,467	9,641	16,221	20,851	13,472
United Kingdom					
\$000	679	608	665	1,906	1,728
000 lbs.	1,464	1,284	1,633	4,401	2,785
EEC-6					
\$000	319	513	194	5,613	11,950
000 lbs.	2,057	3,224	341	10,640	18,947
Brazil					
\$000	504	1,169	1,748	11,347	6,953
000 lbs.	5,041	11,111	13,790	23,542	12,638
Portugal					
\$000	1,545	1,562	420	796	1,604
000 lbs.	12,405	11,478	1,055	1,138	2,810
Mexico					
\$000	945	2,710	4,468	10,320	970
000 lbs.	9,104	23,987	25,622	23,155	1,724
Tanzania					
\$000	1,182	1,492	1,716	5,787	2,340
000 lbs.	11,169	13,562	13,128	16,774	4,840
Haiti					
\$000	214	1,303	2,279	3,497	1,626
000 lbs.	1,957	11,231	13,106	8,011	3,189
TOTAL (All Countries)					
\$000	8,408	12,960	17,172	55,060	45,006
000 lbs.	57,356	93,849	93,692	119,136	77,935

TABLE 28 - IMPORTS OF TWINE FROM ALL COUNTRIES, VALUE AND QUANTITY, AVERAGE
1968-71 - CALENDAR YEARS 1972-75

	Average 1968-71	1972	1973	1974	1975
Baler Twine					
\$000	4,583	10,160	13,366	49,628	40,846
000 lbs.	52,715	88,419	86,990	112,902	73,773
Binder Twine					
\$000	216	175	261	671	445
000 lbs.	1,045	1,440	1,746	1,716	876
Cordage and Twine n.e.s.					
\$000	3,609	2,625	3,545	4,761	3,715
000 lbs.	3,596	3,990	4,956	4,518	3,286
TOTAL					
\$000	8,408	12,960	17,172	55,060	45,006
000 lbs.	57,356	93,849	93,692	119,136	77,935

TABLE 29 - EXPORTS OF TWINE TO ALL COUNTRIES, VALUE AND QUANTITY, AVERAGE
1968-71 - CALENDAR YEARS 1972-75

	Average 1968-71	1972	1973	1974	1975
Baler Twine					
\$000	2,051	1,043	626	1,884	1,297
000 lbs.	12,890	6,731	2,353	4,644	2,244
Binder Twine					
\$000	170	101	6	30	15
000 lbs.	1,038	649	38	119	29
Cordage and Twine n.e.s.					
\$000	244	294	403	1,063	1,050
000 lbs.	438	382	636	1,075	1,214
TOTAL					
\$000	2,465	1,438	1,035	2,977	2,362
000 lbs.	14,366	7,762	3,027	5,838	3,486

TABLE 30 - IMPORTS OF TRACTOR AND IMPLEMENT TIRES FROM ALL COUNTRIES AND SELECTED COUNTRIES, VALUE AND UNITS, AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States					
\$000	3,810	5,200	6,689	16,129	19,523
Units	109,766	163,765	172,629	330,128	308,619
EEC-6					
\$000	109	52	36	89	393
Units	43,197	18,342	13,229	455	2,065
Japan					
\$000	13	1	2	4	20
Units	122	-	1,012	95	220
United Kingdom					
\$000	7	6	9	192	9
Units	257	70	128	389	116
Sweden					
\$000	18	33	110	83	108
Units	4,956	3,255	3,842	6,547	3,361
Taiwan					
\$000	-	-	18	46	-
Units	-	-	12,000	12,100	-
TOTAL (All Countries)					
\$000	3,962	5,323	6,872	16,555	20,241
Units	159,516	187,344	203,326	352,208	317,907

TABLE 31 - EXPORTS OF TRACTOR AND IMPLEMENT TIRES TO ALL COUNTRIES AND TO
 SELECTED COUNTRIES OF DESTINATION, VALUE AND UNITS, AVERAGE 1968-71 -
 CALENDAR YEARS 1972-75

Country	Average 1968-71	1972	1973	1974	1975
United States					
\$000	909	2,204	2,793	1,181	4,218
Units	13,437	14,940	26,998	10,985	33,361
EEC-6					
\$000	29	51	14	1	46
Units	335	633	150	15	50
Belize (British Honduras)					
\$000	5	3	2	5	9
Units	181	87	72	230	70
Jamaica					
\$000	9	14	6	1	1
Units	129	58	65	25	5
Oceania					
\$000	9	13	11	3	21
Units	101	56	66	20	95
South Vietnam					
\$000	-	-	-	90	-
Units	-	-	-	272	-
Cuba					
\$000	-	-	37	89	72
Units	-	-	1,500	3,550	2,889
TOTAL (All Countries)					
\$000	1,011	2,359	3,009	1,431	4,531
Units	15,251	16,394	29,574	16,104	37,261

TABLE 32 - AVERAGE UNIT VALUES OF SELECTED AGRICULTURAL PRODUCTION INPUTS, EXPORTED TO ALL COUNTRIES, AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Inputs	Unit	Average				
		1968-71	1972	1973	1974	1975
Agricultural Chemicals	\$/cwt.	n.a.	n.a.	75.64	113.19	146.31
Fertilizer and Materials	\$/ton	31.15	30.67	29.84	37.44	51.71
Baler Twine	\$/lb.	.16	.16	.27	.41	.58
All Twine	\$/lb.	.17	.19	.23	.51	.68
Tractor and Implement Tires	\$/tire	70.00	144.00	102.00	89.00	121.60
Wheel Tractors new and used	\$/machine	5,906	5,721	8,936	12,820	15,695
Combines (grain)	\$/machine	8,619	10,402	11,811	12,671	17,627
Cultivators	\$/machine	701	810	927	1,114	1,531
Mowers	\$/machine	463	579	482	525	792

n.a. = not available.

TABLE 33 - AVERAGE UNIT VALUES OF SELECTED AGRICULTURAL PRODUCTION INPUTS, IMPORTED FROM ALL COUNTRIES, AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Inputs	Unit	Average 1968-71	1972	1973	1974	1975
Agricultural Chemicals	\$/cwt.	38.88	43.38	42.81	50.57	66.64
Fertilizer and Materials	\$/ton	10.54	10.47	10.73	18.00	34.49
Baler Twine	\$/lb.	.12	.11	.15	.44	.55
All Twine	\$/lb.	.14	.14	.15	.46	.58
Tractor and Implement Tires	\$/tire	25.00	28.00	34.00	47.00	63.67
Combines (grain)	\$/machine	7,014	7,353	8,900	10,459	13,366
Farm Loaders	\$/machine	1,118	970	1,323	2,557	2,340
Wheel Tractors, New	\$/machine	4,130	4,882	5,330	6,336	8,436
Used Tractors	\$/machine	3,661	6,638	4,750	8,161	10,510
Tractor Cabs	\$/machine	326	287	426	573	706

TABLE 34 - NET TRADE BALANCE IN SELECTED AGRICULTURAL PRODUCTION INPUTS, CANADA,
AVERAGE 1968-71 - CALENDAR YEARS 1972-75

Production Input	Average 1968-71	1972	1973	1974	1975
Farm Machinery					
Imports	308,103	407,312	541,474	771,880	1,083,410
Exports	179,159	227,624	302,450	415,344	574,618
Net Trade Balance	(128,944)	(179,688)	(239,025)	(356,536)	(508,792)
Agricultural Chemicals					
Imports	31,945	38,588	53,828	79,665	110,688
Exports	-	-	5,673	7,030	16,607
Net Trade Balance	(31,945)	(38,588)	(48,155)	(72,635)	(94,081)
Fertilizer and Materials					
Imports	28,793	35,092	42,720	72,478	138,802
Exports	207,577	253,863	287,197	431,874	478,387
Net Trade Balance	178,784	218,771	244,477	359,396	339,585
All Twine					
Imports	8,408	12,960	17,172	55,060	45,006
Exports	2,465	1,438	1,035	2,977	2,362
Net Trade Balance	(5,943)	(11,522)	(16,137)	(52,083)	(42,644)
Tractor and Implement Tires					
Imports	3,962	5,324	6,872	16,555	20,241
Exports	1,011	2,359	3,010	1,431	4,531
Net Trade Balance	(2,951)	(2,965)	(3,862)	(15,124)	(15,710)
TOTAL					
Imports	381,211	499,275	662,066	995,638	1,398,147
Exports	390,212	485,284	599,364	858,656	1,076,505
Net Trade Balance	9,001	(13,991)	(62,702)	(136,992)	(321,642)

NOTE: Figures in brackets indicate a deficit.

GLOSSARY OF SELECTED AGRICULTURAL PRODUCTION INPUTS

Exports and Imports Items

Farm Machinery

Soil Preparation, Seeding and Fertilizing Machinery:

Disc plows and harrow plows, one-way discs, tiller combines and parts
Plows and parts, (n.e.s.)*
Drag and spring tooth harrows and parts
Disc harrows and parts
Rotary tillers, agriculture and parts
Planter, transplanters and parts
Grain drills and combination grain and fertilizer drills and parts
Manure spreaders and parts
Soil preparation, seeding and fertilizing machinery, and parts, n.e.s.

Cultivation and Crop Protection Machinery:

Cultivators, weeders and parts
Sprayers and other crop protection machinery, equipment and parts, n.e.s.

Haying, harvesting, threshing and related machinery:

Mowers and parts
Dump rakes, side rakes, tedders, and parts
Hay and straw balers, and parts
Combination mower-conditioners
Haying machinery and parts, n.e.s.
Swathers or windrowers, and parts
Grain and corn binders, and ensilage and forage harvesters, and parts
Potato harvesting machinery and parts
Combine reaper-threshers
Parts, attachments and accessories for combine reaper-threshers
Tobacco harvesting machinery and parts
Harvesting, threshing, and related machinery and parts, n.e.s.

Machines for preparing crops for market or use:

Feed cutters, grinders, crushers or rollers, farm type and parts
Machines for preparing fruit, vegetables, flowers or nursery stock for market or use, and parts
Machines and equipment for preparing crops for market or use, and parts
n.e.s.

*n.e.s. - not elsewhere specified.

Dairy Farm, Poultry Farm and Apiary Machinery and Equipment:

Milling machines and parts
Cream separators, farm type, and parts
Farm milk coolers and parts
Farm dairy machinery, equipment and parts, n.e.s.
Incubators, brooders and parts
Poultry farm and apiary machinery, equipment and parts n.e.s.

Other Agricultural Machinery and Equipment:

Grain loaders and elevators and parts
Farm loaders, attachments for tractors
Cattle stalls, pens, stanchions, and parts
Feeders, feed cookers and tank heaters, farm type, and parts
Agricultural edge tools and blades
Farm irrigation systems and parts
Agricultural machinery, equipment, and parts, n.e.s.

Tractors:

Wheel tractors, new and used, and parts
Tractor engines and engine parts
Tractor cabs
Tractors n.e.s., parts and accessories for tractors n.e.s.

Fertilizers:

Ammonia, anhydrous
Urea
Ammonium nitrate
Sodium nitrate, calcium cyanamide and nitrogen solutions
Ammonium sulphate
Nitrogenous fertilizers, mineral or chemical, n.e.s.
Superphosphate, 22 percent or less P₂O₅
Superphosphate, more than 22 percent P₂O₅
Phosphatic fertilizers n.e.s.
Potassium chloride
Potassium sulphate
Potassic fertilizers n.e.s.
Prepared fertilizer mixtures
Fertilizers and fertilizer materials n.e.s.
Phosphate rock

Agricultural Chemicals (Imports)

Aldrin, technical

DDT, technical

Derivatives of hydrocarbons n.e.s.

2, 4 - dichlorophenoxyacetic acid, (2, 4-D)

Methyl chlorophenoxyacetic acid (MCP or MCPA)

Dithiocarbamates

DDT dusts, solutions and powders

Synthetic organics n.e.s., botanicals and arsenicals, formulated

Dithiocarbamates, formulated

Mercurial fungicides (except seed treatments)

Fungicides n.e.s. (except seed treatments)

Organic mercurial seed treatments

Other agricultural dusts and sprays (except herbicides)

Herbicides based on chlorate, borate or 2, 4, 5-T

2, 4-D ester and amine dusts and formulations

Herbicides n.e.s.

Insecticides and rodenticides n.e.s.

Agricultural Chemicals (Exports)

Agricultural Chemicals, formulated, insecticides and rodenticides

Tires

Tractor and implement tires, pneumatic, n.e.s.

Twine (Imports)

Baler twine

Binder twine

Cotton cordage and twine

Paper cordage and twine

Cordage and twine of man-made fibre

Cordage and twine n.e.s.

Twine (Exports)

Baler twine

Binder twine

Cordage, twine and rope n.e.s.

APPENDIX

APPENDIX

Tariffs, Sales Taxes, Trade Restrictions and Concessions on Selected Agricultural Production Inputs

Part I

Canadian Tariffs

Customs tariffs for agricultural production units entering Canada, as described by Revenue Canada, are as follows:

Agricultural machinery and equipment as outlined in tariff items 40900-1 to 40962-1, are free of tariffs with the following exceptions:

40914-1 - Lawn or garden rollers, non-mechanical;

parts thereof - 15 percent British Preferential Tariff (BP)
15 percent Most Favored Nation Tariff (MFN)
15 percent General Tariff (GT)
10 percent General Preferential Tariff (GPT)

40938-1 - Internal combustion tractors (free), other than highway truck tractors and other than the following integrated self-propelled machines:
front-end loaders or tractor shovels, tractor dozers, log skidders, log loaders, fork lift or lift trucks, combination excavating and transporting scraper units, combination excavating and loading machines, street sweepers, mobile compressors, and snow-moving machines; accessories, n.o.p.*, and parts thereof, for tractors entitled to entry under this item (free); parts of tractors entitled to entry under this item (free).

40946-1 - Pasteurizers for dairying purposes and complete parts thereof -

Free - BP
15 percent - MFN
25 percent - GT
Free - GPT

*n.o.p. - not otherwise provided for.

40952-1 - Milk evaporators and milk driers for dairying purposes and parts thereof -

Free - BP
7.5 percent - MFN
25 percent - GT
Free - GPT

40954-1 - Poultry processing equipment, namely: plucking, scalding, washing, singeing, eviscerating and packaging equipment; parts of the foregoing -

Free - BP
Free - MFN
35 percent - GT
Free - GPT

40958-1 - Articles and materials, including carrying cases, for use in the processing, storing and insemination of animal semen -

Free - BP
Free - MFN
40 percent - GT
Free - GPT

40959-1 - Cryogenic containers for use in the shipment or storage of vaccines for poultry -

Free - BP
Free - MFN
25 percent - GT
Free GPT

40960-1 - Roofs, chutes, ladders, wall sections with or without doors incorporated therein, materials and parts; all of the foregoing for the construction or repair of silos for storing ensilage -

10 percent - BP
10 percent - MFN
25 percent - GT
6.5 percent - GPT

40962-1 - Trickle irrigation systems for use on the farm; sprinkle or trickle watering systems for use in greenhouses; parts of the foregoing -

Free - BP
Free - MFN
25 percent - GT
Free - GPT

43105-1 - Shovels and spades, of iron or steel, n.o.p., and axes -

10 percent - BP
15 percent - MFN
20 percent - GT
10 percent - GPT

43110-1 - Hoes, pronged forks, rakes, hand -

15 percent - BP
15 percent - MFN
20 percent - GT
10 percent - GPT

(Note: In Tariff Item 40930-1, provision is made for free entry into Canada of "scythes, sickles or reaping hooks, hay or straw knives, edging knives, hoes, pronged forks, rakes, n.o.p.". As the "hand" version of these items is specifically mentioned in Item 43110-1, Revenue Canada officials interpret Item 40930-1 to include pronged forks, etc., that are pulled by a tractor and are duty free).

43115-1 - Web saws and parts thereof -

7.5 percent - BP
15 percent - MFN
35 percent - GT
7.5 percent - GPT

Also duty free are:

44200-1 - Articles and materials which enter into the cost of manufacture of the goods enumerated in tariff items 40900-1 to 40956-1 (agricultural machinery and implements) when imported for use in the manufacture of the good enumerated in the aforesaid tariff items, or in the manufacture of parts therefor, under such regulations as the Minister may prescribe.

61810-1 - Tires and tubes, wholly or in part of rubber, for equipment of the agricultural implements and agricultural machinery specified in tariff items 40904-1, 40906-1, 40908-1, 40910-1, 40912-1, 40914-1, 40916-1, 40918-1, 40920-1, 40924-1, 40928-1, 40932-1, 40936-1, and the tractors provided for in tariff items.

(Note: Recent amendments to this item will allow tires for use on tractors duty-free, provided the user gives certification that these tires will be used on a tractor).

Fertilizers and goods for the manufacture of fertilizers are duty free under sections 84900-1, and 93100-1.

Chemicals for use exclusively as, and preparations compounded exclusively for use as disinfectants, insecticides, fungicides, herbicides, anti-sprouting products, rodenticides or otherwise in combatting pests of a plant or animal nature; all the foregoing subject to such regulations as the Minister may prescribe, are all not subject to duty: tariff item 93811-1, 93811-2. The above items, when in packages not exceeding three pounds each gross weight:

Free - BP
7.5 percent - MFN
25 percent - GT
Free - GPT

40924-1 - This item contains a general provision for all other agricultural implements or agricultural machinery, n.o.p., to enter Canada duty-free; this item also includes parts of the foregoing.

Baler Twine, Binder Twine -

40922-1 - This tariff item provides for free entry of both baler and binder twine into Canada. Regulations stipulate that it must be one strand only, and of a certain length of use only on a baling machine. Under the Inspections Act, if baler or binder twine is made of hemp, or of any living plant, it is subject to inspection to avert diseased material being imported. The baler and binder twine entering Canada duty-free are manufactured mainly of synthetic fibres.

Part II

Federal and Provincial Sales Taxes

The Federal Excise Tax Act of April, 1973 imposes a sales tax at the manufacturer level of 12 percent on most goods produced in Canada for domestic consumption or imported for sale in Canada. The classes of agricultural production inputs listed in this report are generally exempt from the sales tax when for farm use.

Most provinces levy provincial sales taxes, which are imposed at the retail level. The rates vary among provinces, but the current levels (April, 1976) by province are:

Newfoundland	10	percent
Prince Edward Island	8	"
Nova Scotia	8	"
New Brunswick	8	"
Quebec	8	"
Ontario	7	"
Manitoba	5	"
Saskatchewan	5	"
Alberta	no tax is levied	
British Columbia	7	percent
Yukon Territory	no tax is levied	
Northwest Territories	no tax is levied	

The classes of agricultural production inputs listed in this report are generally exempt from provincial sales taxes when sold for farm use to "bona fide" farmers.

As a general principle all imports are subject not only to Canadian customs duties, unless exempt, but also to federal and provincial sales taxes, unless exempt, when for use in Canada.

Part III

Tariff and Non-Tariff Barriers to Canadian Exports

There are a variety of non-tariff barriers affecting the export of farm inputs from Canada. These include variations in labelling requirements, technical specifications, freedom from insect infestations and residual pesticides, and others.

Current rates of duty on exports to selected countries for the classes of agricultural production inputs listed in this report, by country or group of countries, fall in the following ranges, depending on specifications and entry restrictions.

<u>United States</u>	<u>Rate</u>
Machinery for agricultural use	Free
Fertilizers and materials for fertilizers manufacture	Free
Agricultural chemicals	1.7¢/lb. plus 12.5% ad valorem to 3.5¢/lb. plus 22.5% ad valorem
Twine cordage of hard vegetable fibres	Free to 15% ad valorem
Twine cordage of man-made fibres.....	12.5¢/lb. plus 15% ad valorem
Tractor and Implement tires for agri- cultural or horticultural machinery .	Free
<u>European Economic Community</u>	<u>Rate</u>
Agricultural and horticultural machinery (excluding tractors)	4.5% to 6.0%
Agricultural tractors	6.0% to 20.0%
Fertilizers	Free to 12.8%
Agricultural chemicals	6.4% to 9.6%
Twine	13.0%
Tractor tires.....	7.5% to 9.0%

Japan

Agricultural and horticultural machinery	6.0%
Fertilizers	Free
Agricultural chemicals	8.0%
Twine	4.0% to 8.0%
Tires	10.0% to 12.0%

Mexico

Farm machinery not manufactured in Mexico	Free
Fertilizer materials	5.0% to 20.0%
Agricultural chemicals	

Note: Mexican imports are subject to a surtax of 3.0 percent of the sum of the duties and some items are subject to a surtax of one percent of the official value of the merchandise.

Venezuela

Rate

Farm machinery, excluding tractors	1.0% to 50.0%
Tractors	1.0%
Fertilizer materials	50.0%

Note: Ammonium sulphate is permitted duty-free entry under certain conditions for specified periods.

Caribbean Commonwealth Countries

Farm machinery	5.0%
Fertilizers	Free
Agricultural chemicals	Free

Australia

The farm inputs listed in this report enter duty-free but importers are required to deposit with the government 30 percent of the value on placing a foreign order. The deposit is held for 300 days, without interest.

Disclaimer

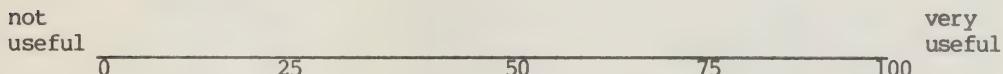
The federal import duties, federal and provincial sales taxes, and foreign rates of duty summarized in this appendix (Parts I, II, and III) are not definitive or inclusive and should not be cited. They are presented as indications of the variations that exist and the general levels of tariffs and sales taxes. For precise information and interpretations, one should consult the applicable legislation and regulations and the agencies responsible for administration.

CANADA'S TRADE IN SELECTED MANUFACTURED AGRICULTURAL PRODUCTION INPUTS, 1945-75

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CONVERSION FACTORS FOR METRIC SYSTEM

Imperial units	Approximate conversion factor	Results in:
LINEAR		
inch	x 25	millimetre (mm)
foot	x 30	centimetre (cm)
yard	x 0.9	metre (m)
mile	x 1.6	kilometre (km)
AREA		
square inch	x 6.5	square centimetre (cm^2)
square foot	x 0.09	square metre (m^2)
acre	x 0.40	hectare (ha)
VOLUME		
cubic inch	x 16	cubic centimetre (cm^3)
cubic foot	x 28	cubic decimetre (dm^3)
cubic yard	x 0.8	cubic metre (m^3)
fluid ounce	x 28	millilitre (ml)
pint	x 0.57	litre (l)
quart	x 1.1	litre (l)
gallon	x 4.5	litre (l)
WEIGHT		
ounce	x 28	gram (g)
pound	x 0.45	kilogram (kg)
short ton (2000 lb)	x 0.9	tonne (t)
TEMPERATURE		
degrees Fahrenheit	$({}^\circ\text{F}-32) \times 0.56$ or $({}^\circ\text{F}-32) \times 5/9$	degrees Celsius (${}^\circ\text{C}$)
PRESSURE		
pounds per square inch	x 6.9	kilopascal (kPa)
POWER		
horsepower	x 746 x 0.75	watt (W) kilowatt (kW)
SPEED		
feet per second	x 0.30	metres per second (m/s)
miles per hour	x 1.6	kilometres per hour (km/h)
AGRICULTURE		
gallons per acre	x 11.23	litres per hectare (l/ha)
quarts per acre	x 2.8	litres per hectare (l/ha)
pints per acre	x 1.4	litres per hectare (l/ha)
fluid ounces per acre	x 70	millilitres per hectare (ml/ha)
tons per acre	x 2.24	tonnes per hectare (t/ha)
pounds per acre	x 1.12	kilograms per hectare (kg/ha)
ounces per acre	x 70	grams per hectare (g/ha)
plants per acre	x 2.47	plants per hectare (plants/ha)



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